

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES UPGRADATION OF EXISTING PEDESTRIAN SIGNAL CONTROL TO APS/ CPS AT THE INTERSECTION OF US 40 (PULASKI HWY) AND MD 781 (DELANCY ROAD) IN CECIL COUNTY.

APS AND CPS WILL BE ADDED FOR THE WEST AND SOUTH LEGS OF THE INTERSECTION AND ADA COMPLIANT RAMPS WOULD BE INSTALLED AT THE INTERSECTION. THE EXISTING TRAFFIC SIGNAL INDICATIONS WOULD BE UPGRADED TO NEW LED TRAFFIC SIGNAL INDICATIONS.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA SIX PHASE, FULLY -ACTUATED MODE, WITH THE US 40 APPROACHES RUNNING CONCURRENTLY. EXCLUSIVE LEFT TURN PHASES ARE PROVIDED FOR BOTH APPROACHES OF US 40 (PULASKI HWY). AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS WEST LEG OF US 40 (PULASKI HWY). THE MD 781 (DELANCY ROAD) AND BAKER'S LANE OPERATE WITH A SPLIT PHASE.THE PEDESTRIAN PHASE ACROSS BAKER'S LANE IS CONCURRENT. RIGHT TURN OVERLAP IS PROVIDED FOR MD 781 (DELANCY ROAD). US 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

EQUIPMENT LIST FOR CONTRACT NO. XX4435185

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

ITEM	QUANTITY	UNIT	DESCRIPTION
9570	56	SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN
	4	EA	W11-2 (36"X36") ADVANECE PEDESTRIAN CROSSING SIGN
	4	EA	W16-7p (24"X12") LEFT DIAGONAL ARROW SIGN
	4	EA	R10-3(1) (9" x 15") PEDESTRIAN PUSH BUTTON SIGN
	1	EA	R3-5 (R) (30"X36") RIGHT TURN ONLY SIGN

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM	QUANTITY	UNIT	DESCRIPTION
1003	2	EA	MAINTENANCE OF TRAFFIC
2001	24	CY	CLASS 2 EXCAVATION
2002	1	CY	TEST PIT EXCAVATION
5004	460	LF	5 INCH HEAT APPLIED WHITE OR YELLOW PERM PVMT LINE MARKINGS
5005	1000	LF	REM OF EXISTING PERM PVMT LINE MARKINGS ANY WIDTH
5006	600	LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5007	50	LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	325	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	1450	SF	5 INCH CONCRETE SIDEWALK
6003	80	SF	DETECTABLE WARNING SURFACE
8001	1	EA	2 WIRE CENTRAL CONTROL UNIT
8007	4	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8008	4	EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8013	4	EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
8014	35	EA	LED SIGNAL HEAD MODULES (ANY SIZE)
8021	1	EA	REM & DISPOSE MAT & EQUIP PER ASSIGN
8032	275	LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED
8034	40	LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED
8036	56	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8038	325	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8045	3	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8050	5	EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8054	825	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8056	875	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8057	375	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

NOTE: ALL EQUIPMENT THAT IS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #2 ARE AS FOLLOWS:

MR. ROBERT KIEL
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MR. BARRY CLOTHIER
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CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

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CHIEF, TRAFFIC OPERATIONS

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MS. DARLENE EIDE
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SIGNAL SHOP WAREHOUSE
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PHASE CHART

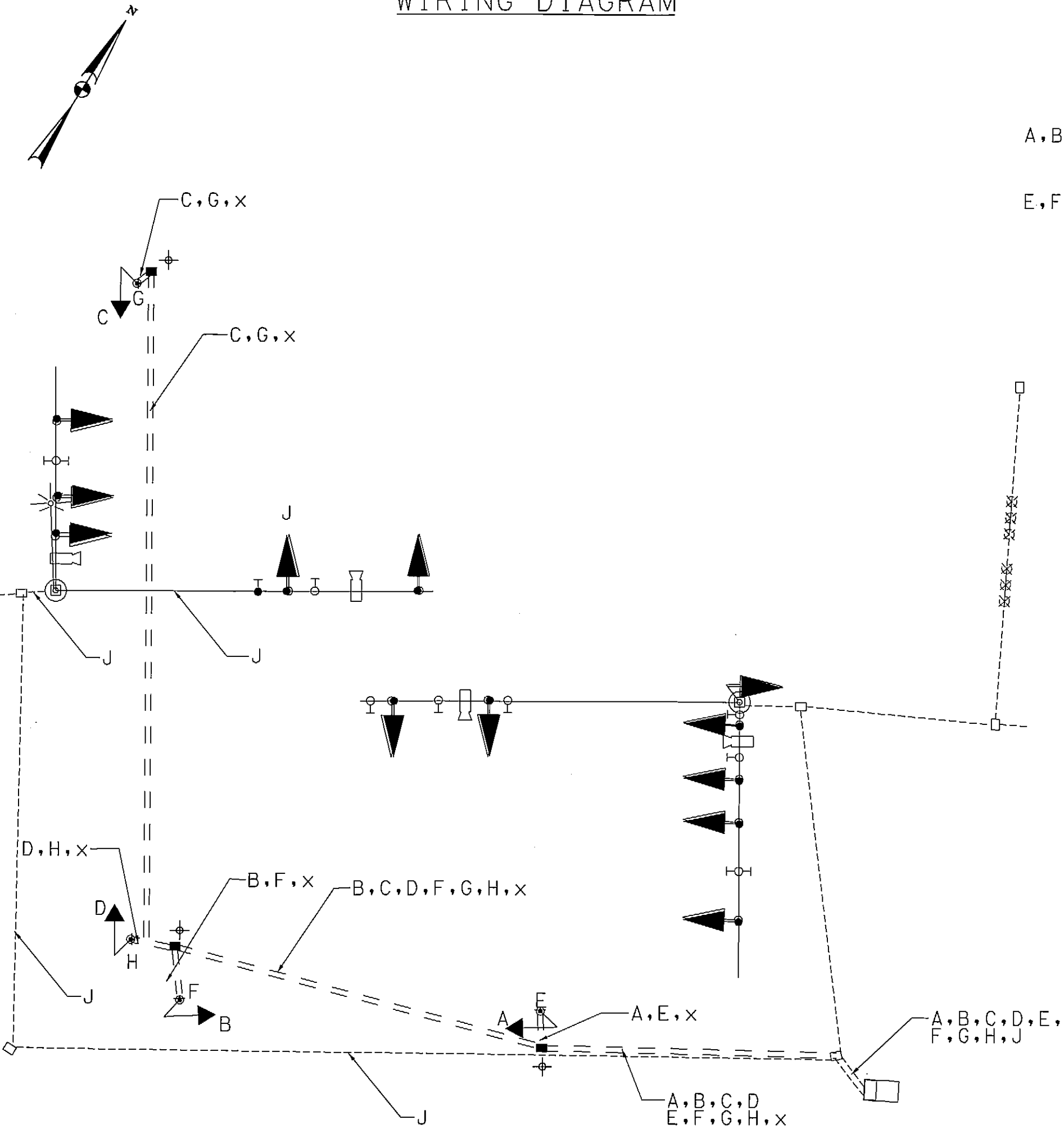
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

PHASE 1 & 5	<IG-	<IG-	<IG-	R	R	<IG-	<IG-	<IG-	R	R		R	R				
1 & 5 CHANGE	PHASE 1 & 5 CHANGE MAY CHANGE TO PHASE 1 & 6, 2 & 5 OR 2 & 6														DW	DW	DW
PHASE 1 & 6	<IG-	<IG-	<IG-	G	G	<IR-	<IR-	<IR-	R	R	R	R	R	R-G>	DW	DW	WK
PED CLEARANCE	<IG-	<IG-	<IG-	G	G	<IR-	<IR-	<IR-	R	R	R	R	R	R-G>	DW	DW	FLDW
1 & 6 CHANGE	<Y-	<Y-	<Y-	G	G	<IR-	<IR-	<IR-	R	R	R	R	R	R-Y>	DW	DW	DW
PHASE 2 & 5	<IR-	<IR-	<IR-	R	R	<IG-	<IG-	<IG-	G	G	R	R	R	R	DW	DW	DW
2 & 5 CHANGE	<IR-	<IR-	<IR-	R	R	<Y-	<Y-	<Y-	G	G	R	R	R	R	DW	DW	DW
PHASE 2 & 6	<IR-	<IR-	<IR-	G	G	<IR-	<IR-	<IR-	G	G	R	R	R	R	DW	DW	DW
2 & 6 CHANGE	<IR-	<IR-	<IR-	Y	Y	<IR-	<IR-	<IR-	Y	Y	R	R	R	R	DW	DW	DW
PHASE 3	<IR-	<IR-	<IR-	R	R	<IR-	<IR-	<IR-	R	R	G-	G	R	R	DW	DW	DW
3 CHANGE	<IR-	<IR-	<IR-	R	R	<IR-	<IR-	<IR-	R	R	Y	Y	R	R	DW	DW	DW
PHASE 4	<IR-	<IR-	<IR-	R	R	<IR-	<IR-	<IR-	R	R	R	R	G-	G	DW	DW	DW
4 CHANGE	<IR-	<IR-	<IR-	R	R	<IR-	<IR-	<IR-	R	R	R	R	Y	Y	DW	DW	DW
PHASE 4 ALT	<IR-	<IR-	<IR-	R	R	<IR-	<IR-	<IR-	R	R	R	R	G-	G	WK	WK	DW
PED CLEARANCE	<IR-	<IR-	<IR-	R	R	<IR-	<IR-	<IR-	R	R	R	R	G-	G	FL/DW	FL/DW	DW
4 ALT CHANGE	<IR-	<IR-	<IR-	R	R	<IR-	<IR-	<IR-	R	R	R	R	Y	Y	DW	DW	DW
FLASHING OPERATION	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK

WIRING DIAGRAM

WIRING KEY

- A,B,C,D } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- E,F,G,H } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- J } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- x } 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
- + } GROUND ROD



SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION US 40 (PULASKI HWY.) AT MD 781 (DELANCY RD.) TRAFFIC SIGNAL MODIFICATION ELKTON, MARYLAND	
GENERAL INFORMATION PLAN	
SCALE <u>N.T.S.</u> ADVERTISED DATE <u>02-02-09</u> CONTRACT NO. <u>XX4435185</u>	
DESIGNED BY <u> </u>	COUNTY <u>CECIL</u>
DRAWN BY <u>NG</u>	LOGMILE <u>07004017.05</u>
CHECKED BY <u>JB</u>	TIMS NO. <u>J178</u>
F.A.P. NO. <u> </u>	TOD NO. <u> </u>
TS NO. 3595 C GI	DRAWING <u> </u> OF <u> </u>
SHEET NO. 3 OF 3	

